

# Bubble game

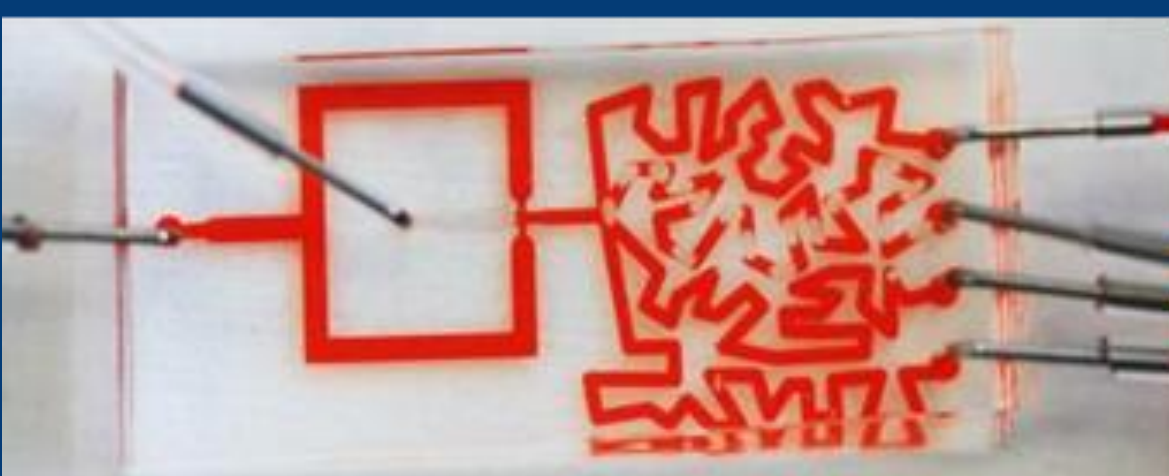
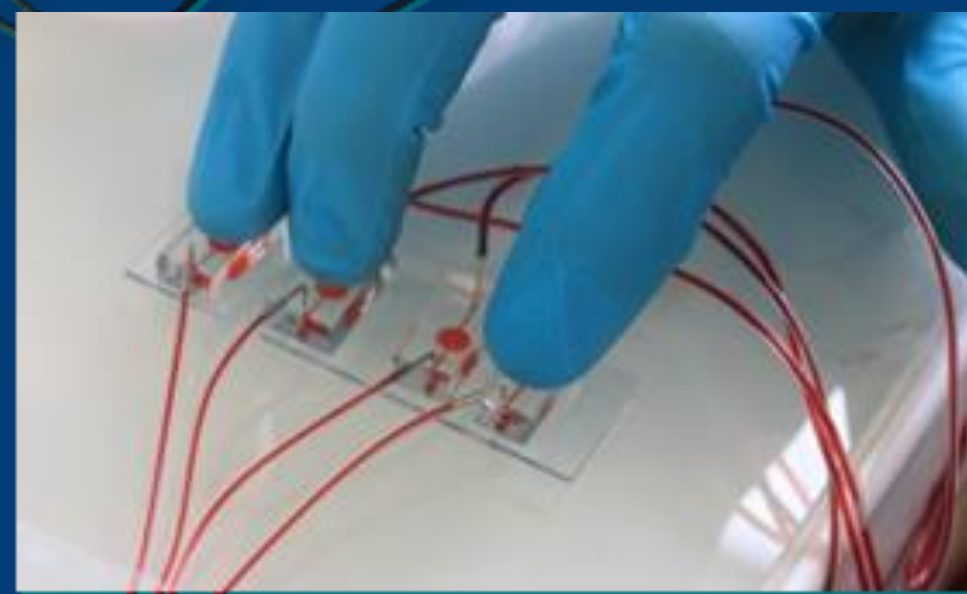
## Ready for the challenge ?

### The bubble game

Level 1 : Use 2 fingers to drive the bubble



Level 2 : Use 4 fingers to drive the bubble



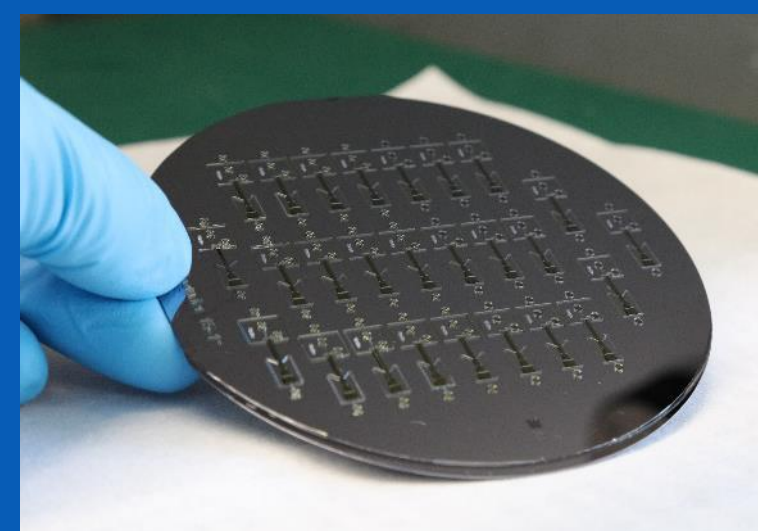
What happens with the PDMS Switch?

Flow Rate = Pressure / Hydro Resistance

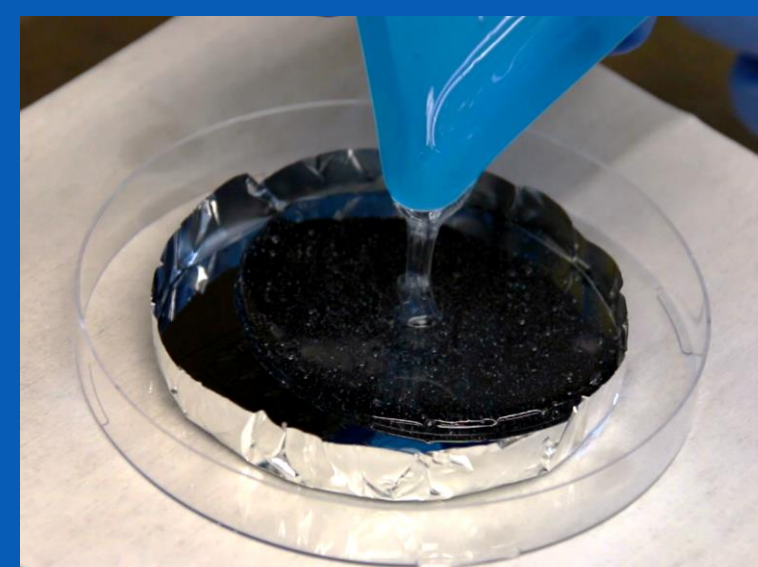
Pressing the PDMS Switch :

- Hydro Resistance goes up....
- The flow rate is equal to 0

### How to make PDMS chips



Structured silicon wafer



Liquid PDMS  
Oven 2h at 70°C



Cut and punch the chips



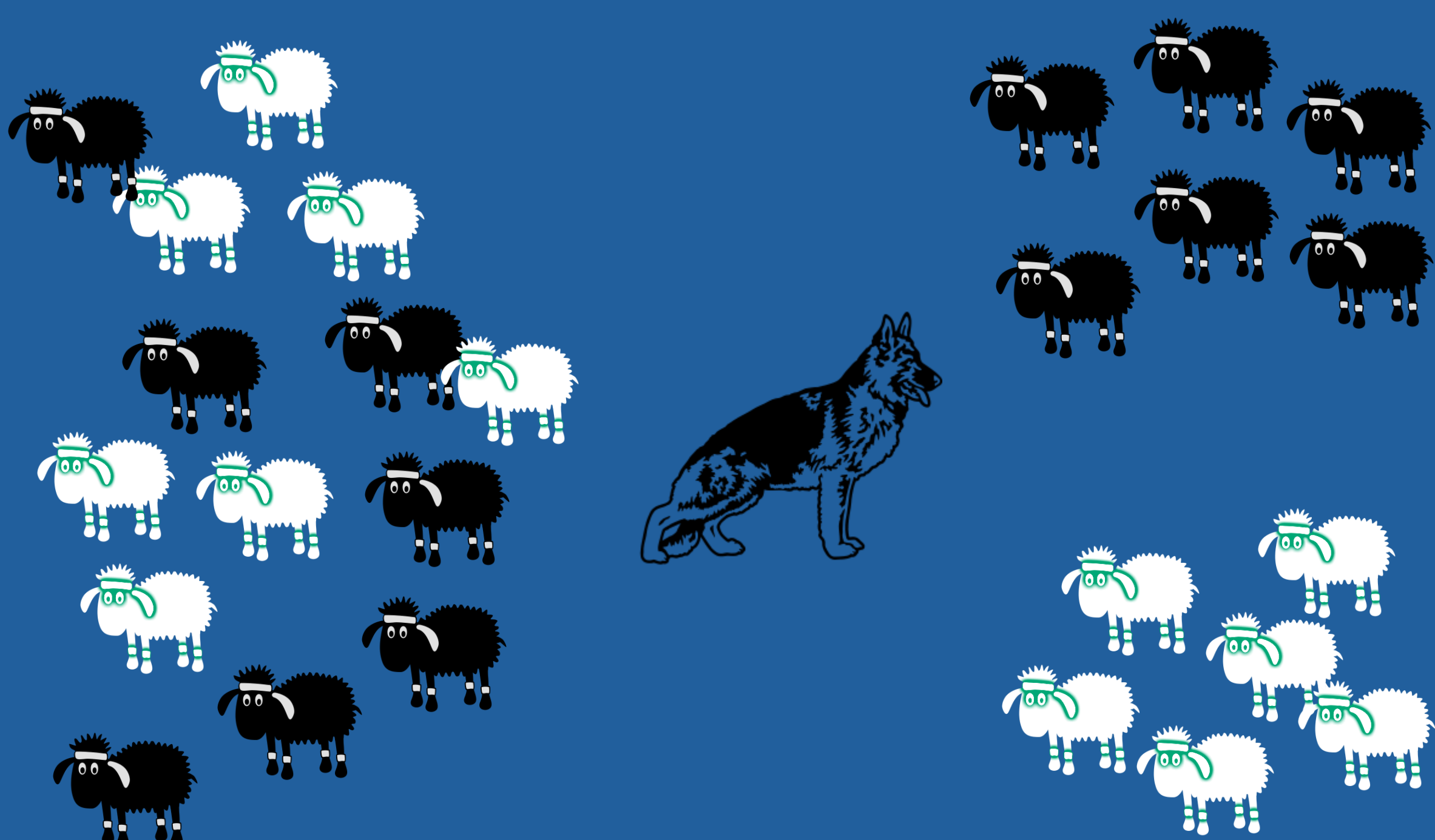
Oxygen Plasma activation



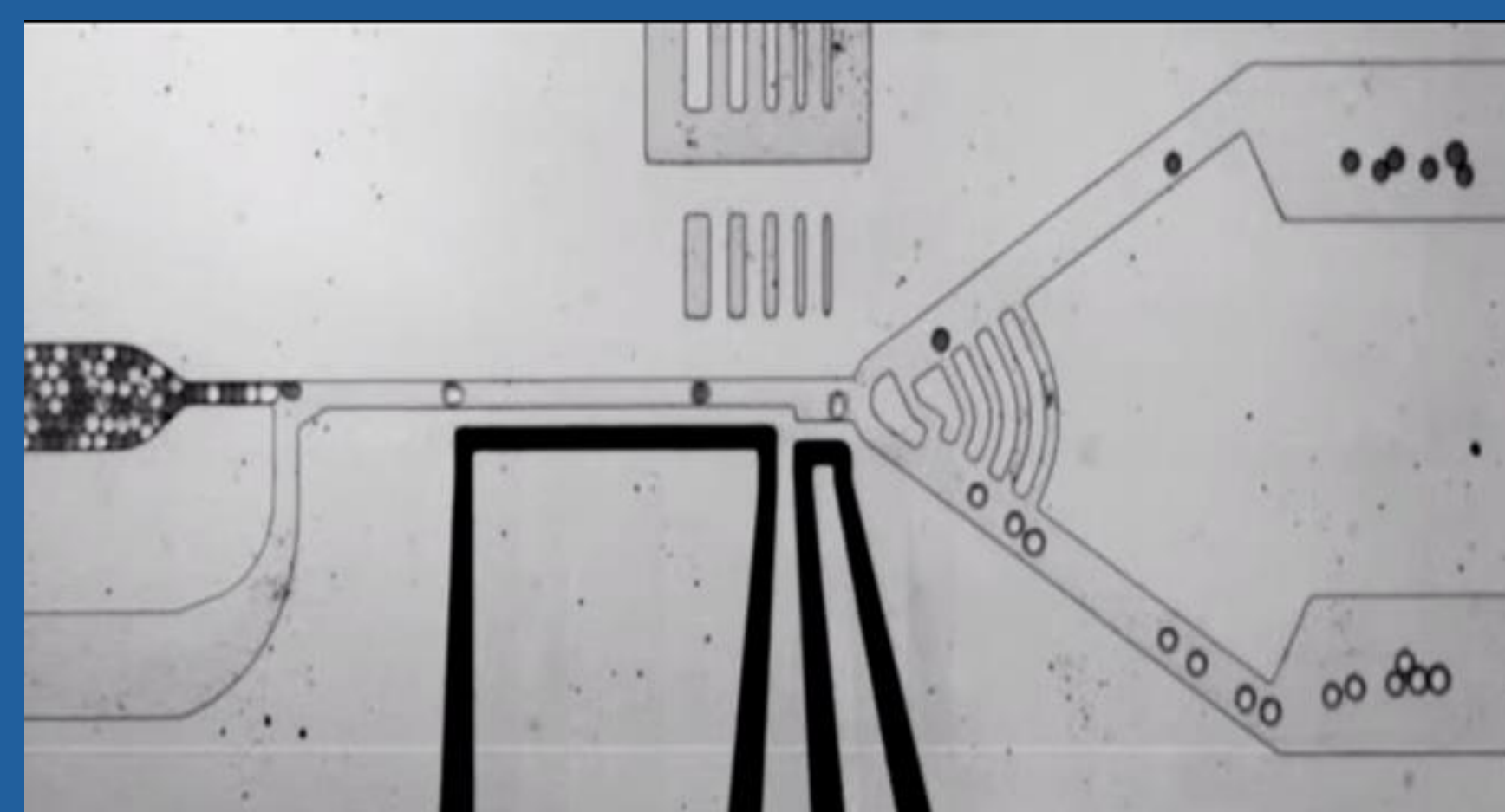
Stick on glass slide

Source : Microfactory

### The Sheep sorter



### The microfluidic sorter



Droplet based microfluidics ESPCI LBC Sorting  
<https://www.youtube.com/watch?v=RNpwwHCB5hQ>

